FIG.1

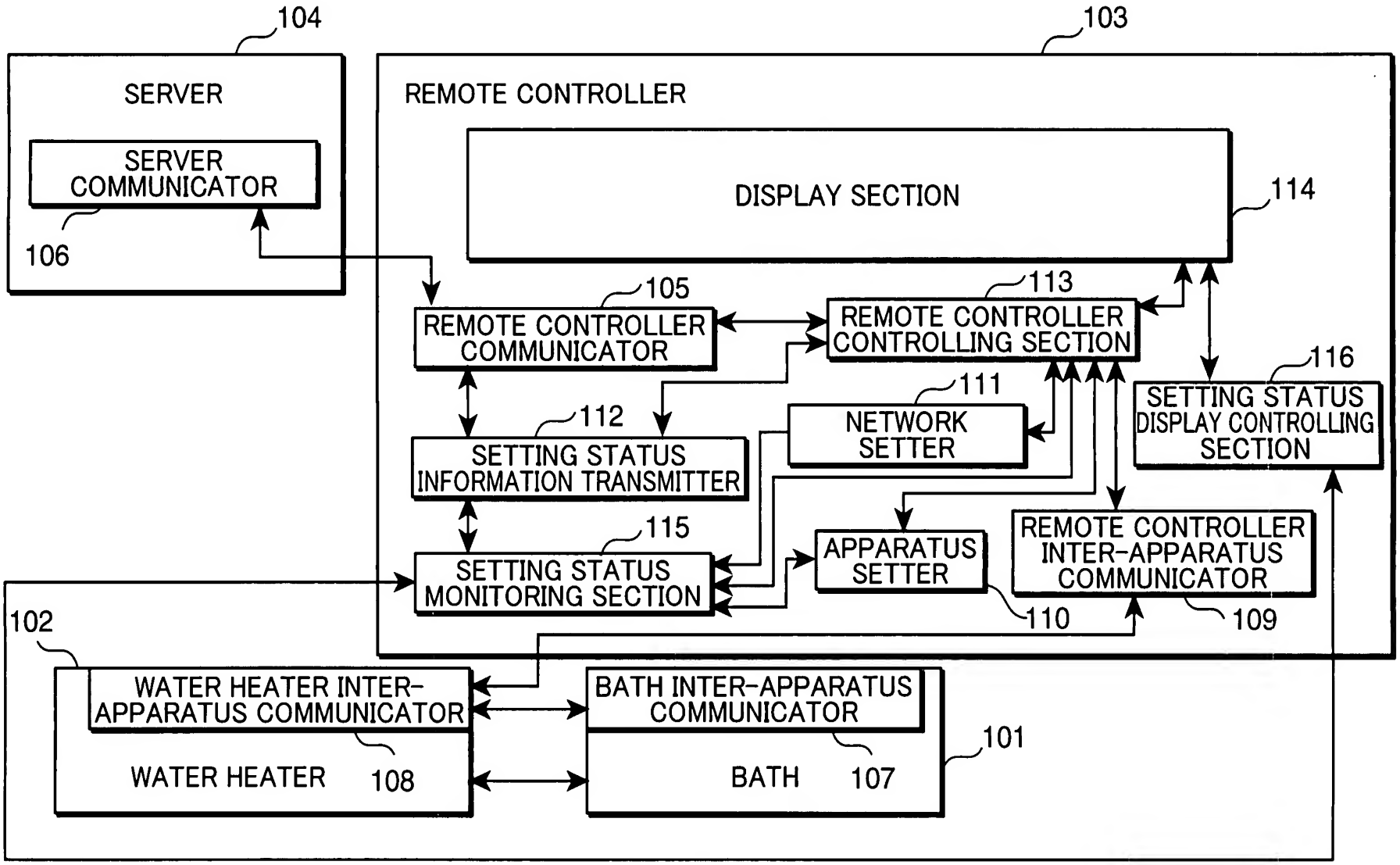

104
SERVER
SERVER COMMUNICATOR
106
103
REMOTE CONTROLLER
DISPLAY SECTION
114
105
REMOTE CONTROLLER COMMUNICATOR
113
REMOTE CONTROLLER CONTROLLING SECTION
116
SETTING STATUS DISPLAY CONTROLLING SECTION
111
NETWORK SETTER
112
SETTING STATUS INFORMATION TRANSMITTER
115
SETTING STATUS MONITORING SECTION
APPARATUS SETTER
110
REMOTE CONTROLLER INTER-APPARATUS COMMUNICATOR
109
102
WATER HEATER INTER-APPARATUS COMMUNICATOR
WATER HEATER
108
BATH INTER-APPARATUS COMMUNICATOR
BATH
107
101

FIG.2

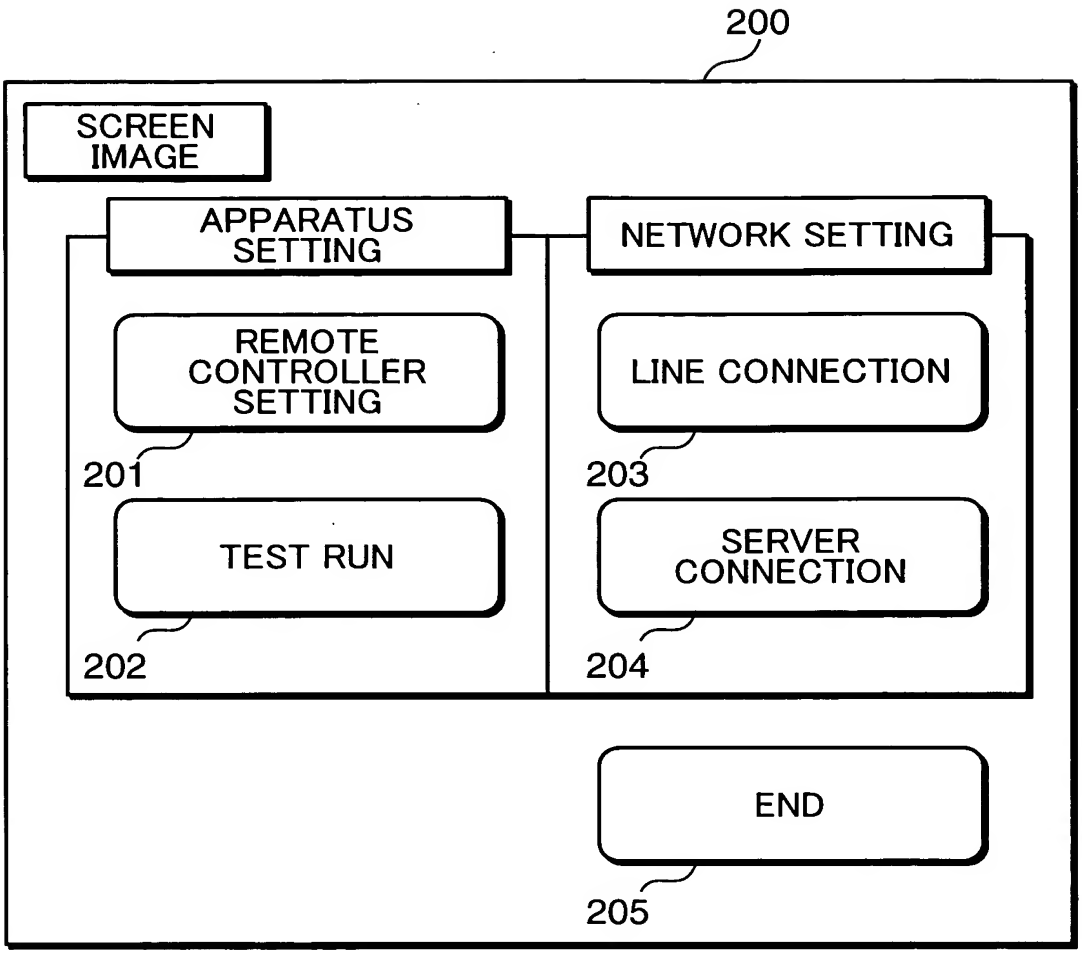

200
SCREEN IMAGE
APPARATUS SETTING
NETWORK SETTING
REMOTE CONTROLLER SETTING
201
LINE CONNECTION
203
TEST RUN
202
SERVER CONNECTION
204
END
205

FIG.3A

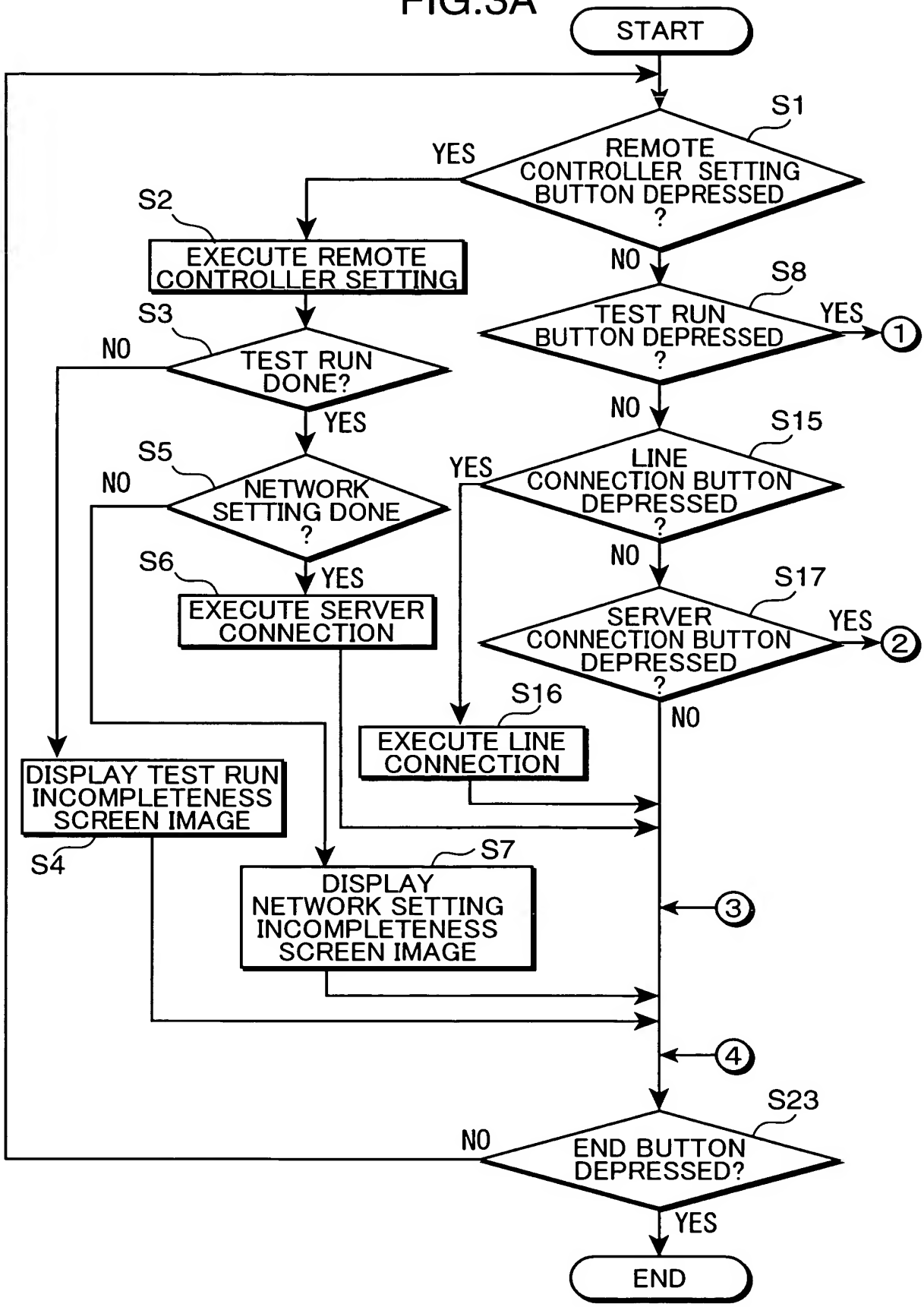

START
S1
REMOTE CONTROLLER SETTING BUTTON DEPRESSED ?
YES
NO
S2
EXECUTE REMOTE CONTROLLER SETTING
S3
TEST RUN DONE?
NO
YES
S8
TEST RUN BUTTON DEPRESSED ?
YES
①
NO
S15
LINE CONNECTION BUTTON DEPRESSED ?
YES
NO
S5
NETWORK SETTING DONE ?
NO
YES
S6
EXECUTE SERVER CONNECTION
S17
SERVER CONNECTION BUTTON DEPRESSED ?
YES
②
NO
S16
EXECUTE LINE CONNECTION
DISPLAY TEST RUN INCOMPLETENESS SCREEN IMAGE
S4
S7
DISPLAY NETWORK SETTING INCOMPLETENESS SCREEN IMAGE
③
④
S23
END BUTTON DEPRESSED?
NO
YES
END

FIG.3B

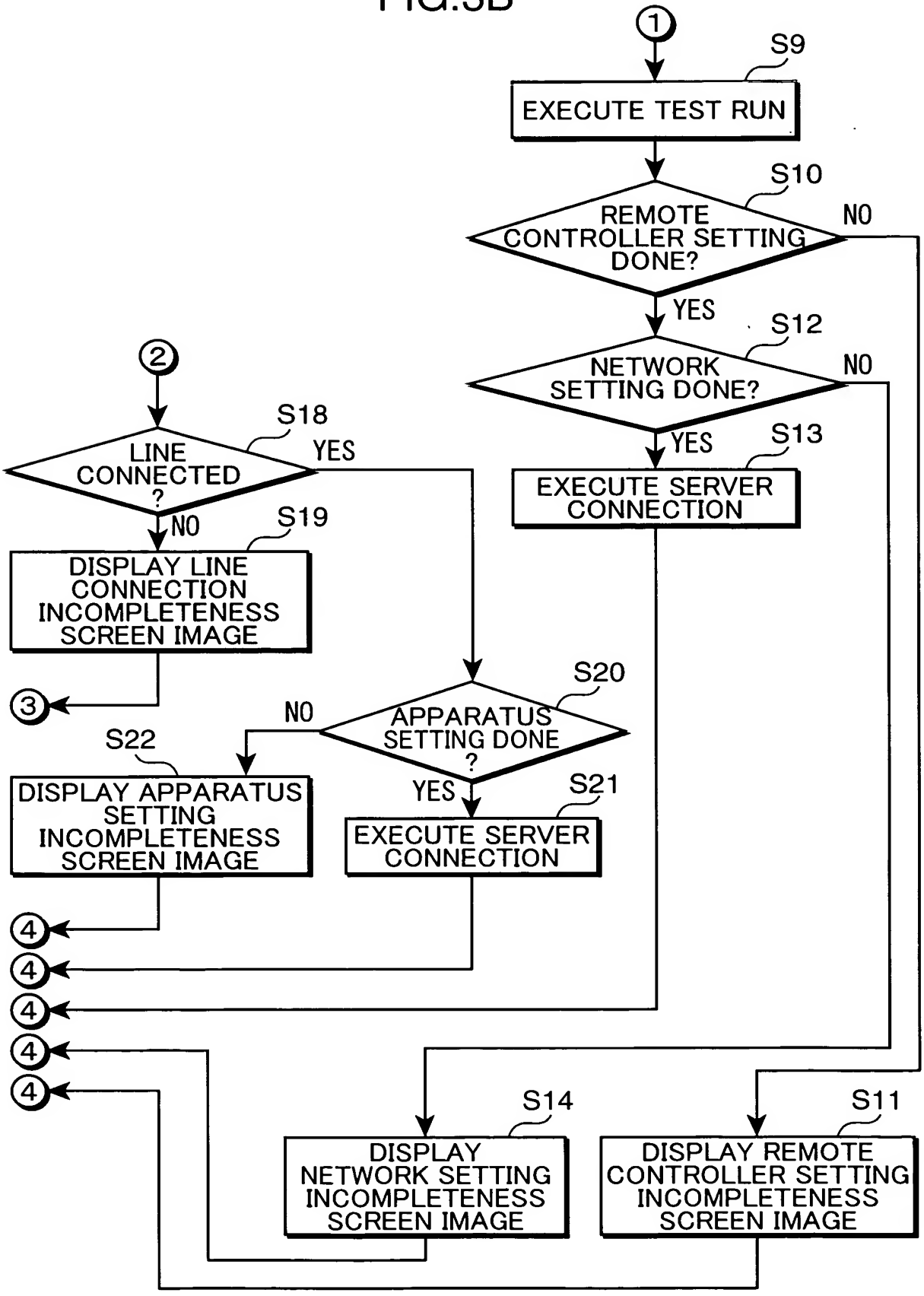

①
S9
EXECUTE TEST RUN
S10
REMOTE CONTROLLER SETTING DONE?
NO
YES
S12
NETWORK SETTING DONE?
NO
YES
S13
EXECUTE SERVER CONNECTION
②
S18
LINE CONNECTED ?
YES
NO
S19
DISPLAY LINE CONNECTION INCOMPLETENESS SCREEN IMAGE
③
S20
APPARATUS SETTING DONE ?
NO
YES
S22
DISPLAY APPARATUS SETTING INCOMPLETENESS SCREEN IMAGE
S21
EXECUTE SERVER CONNECTION
④
④
④
④
④
S14
DISPLAY NETWORK SETTING INCOMPLETENESS SCREEN IMAGE
S11
DISPLAY REMOTE CONTROLLER SETTING INCOMPLETENESS SCREEN IMAGE

FIG.4

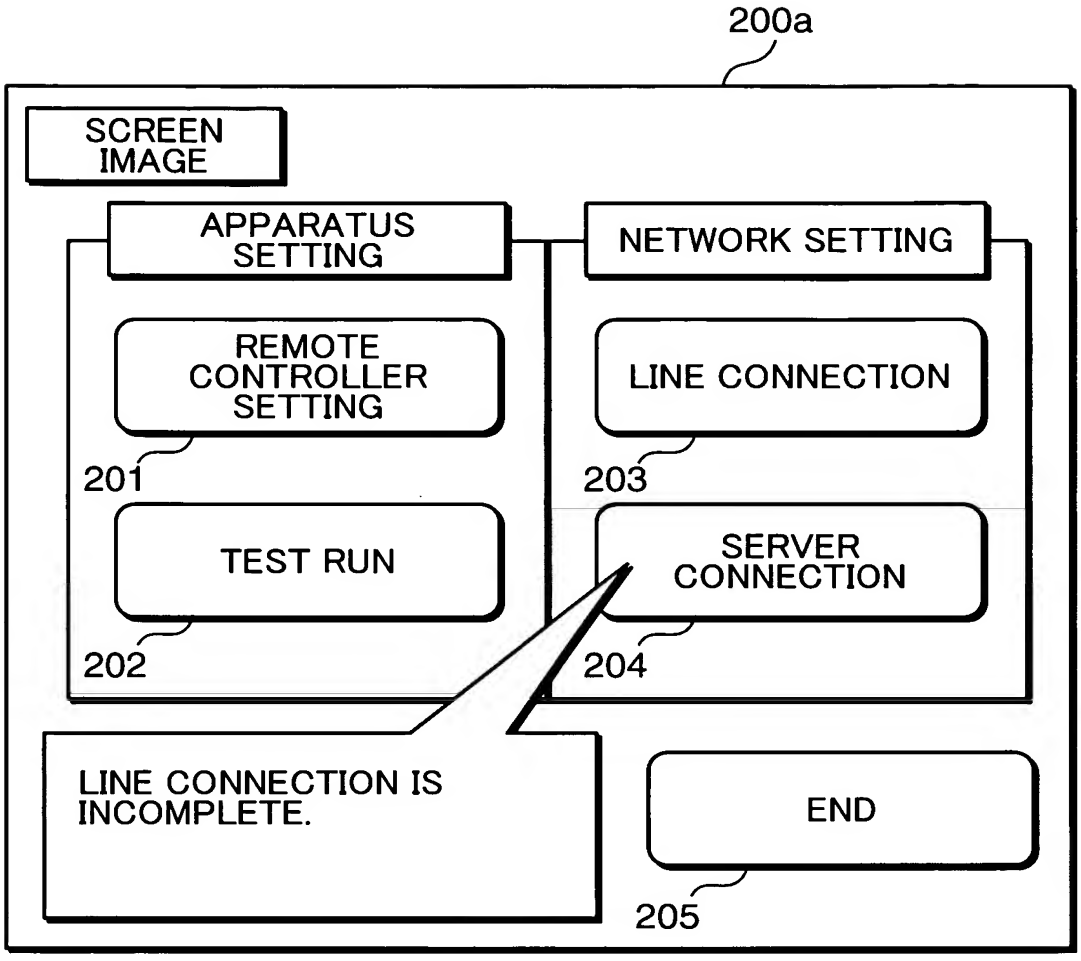

200a
SCREEN IMAGE
APPARATUS SETTING
NETWORK SETTING
REMOTE CONTROLLER SETTING
LINE CONNECTION
201
203
TEST RUN
SERVER CONNECTION
202
204
LINE CONNECTION IS INCOMPLETE.
END
205

FIG.5

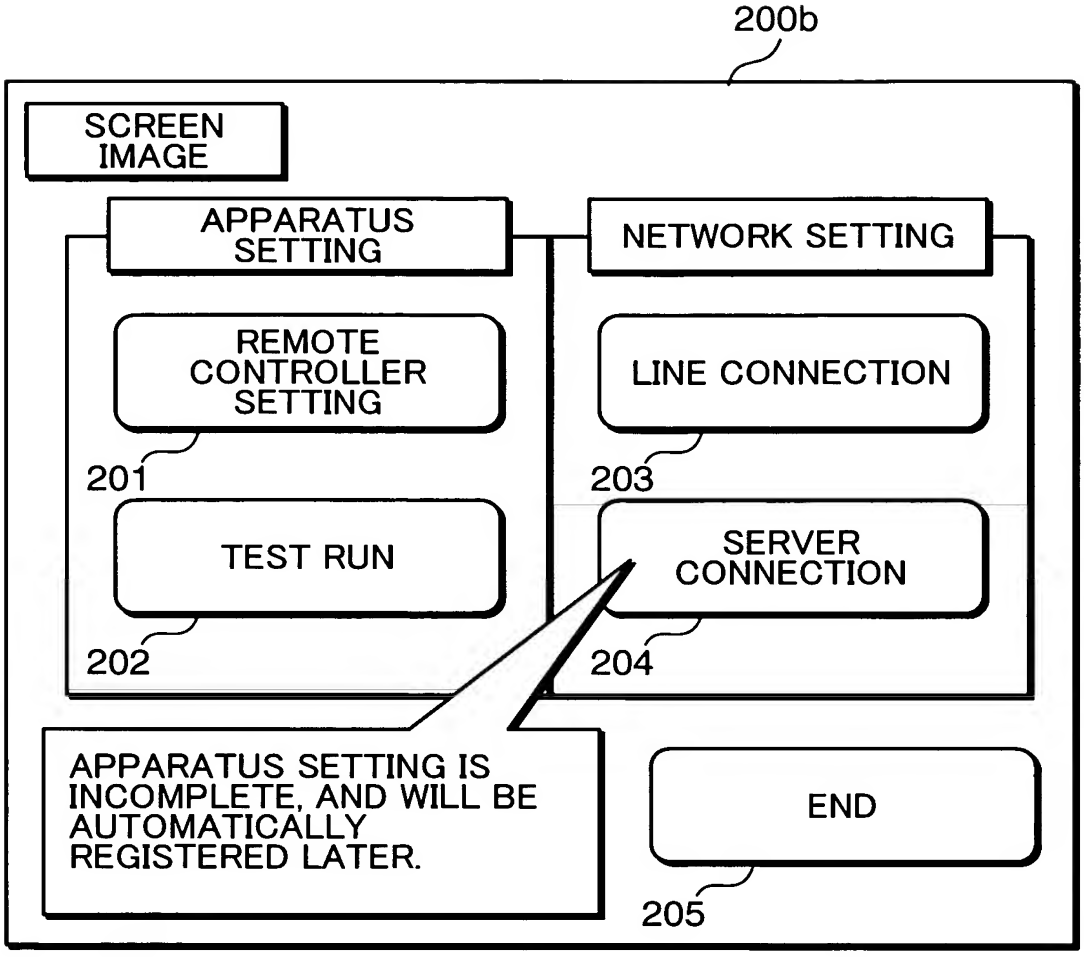

200b
SCREEN IMAGE
APPARATUS SETTING
NETWORK SETTING
REMOTE CONTROLLER SETTING
LINE CONNECTION
201
203
TEST RUN
SERVER CONNECTION
202
204
APPARATUS SETTING IS INCOMPLETE, AND WILL BE AUTOMATICALLY REGISTERED LATER.
END
205

FIG.6

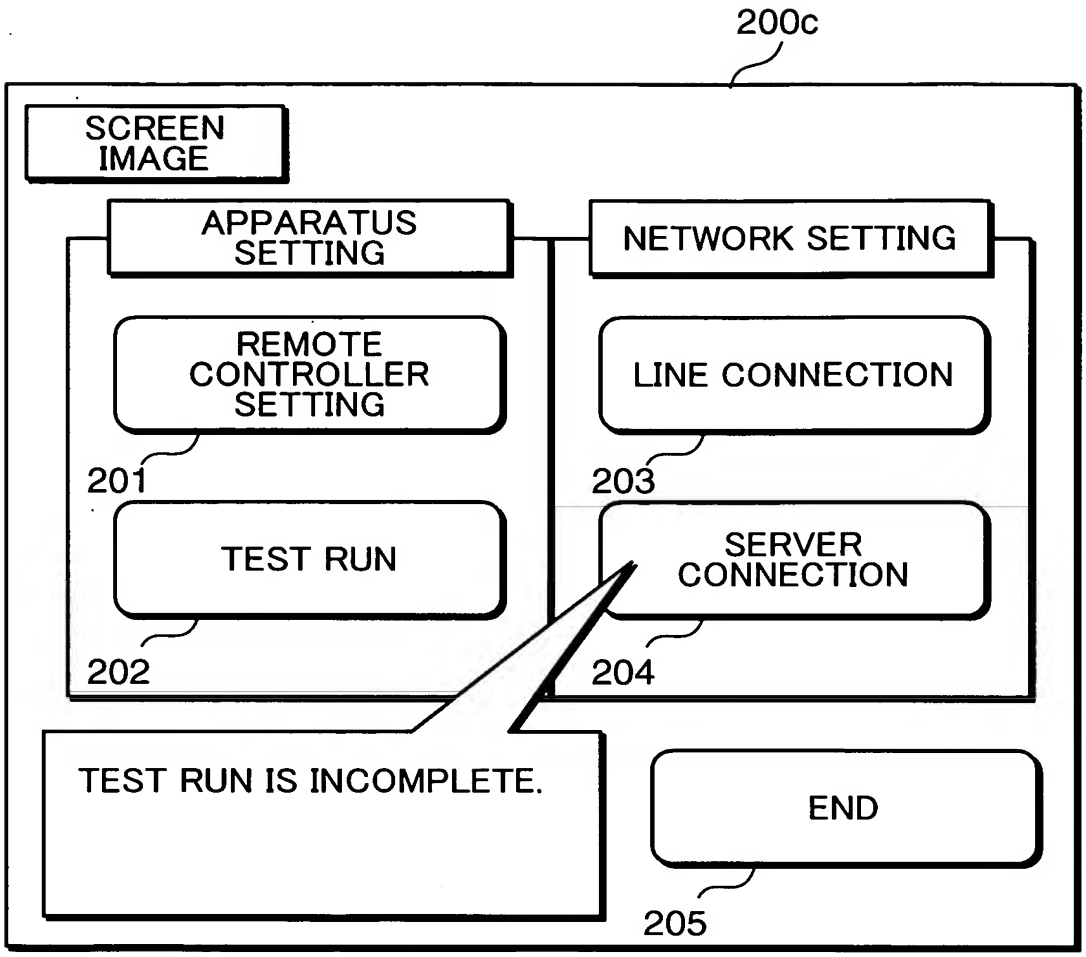

200c
SCREEN IMAGE
APPARATUS SETTING
NETWORK SETTING
REMOTE CONTROLLER SETTING
LINE CONNECTION
201
203
TEST RUN
SERVER CONNECTION
202
204
TEST RUN IS INCOMPLETE.
END
205

FIG.7

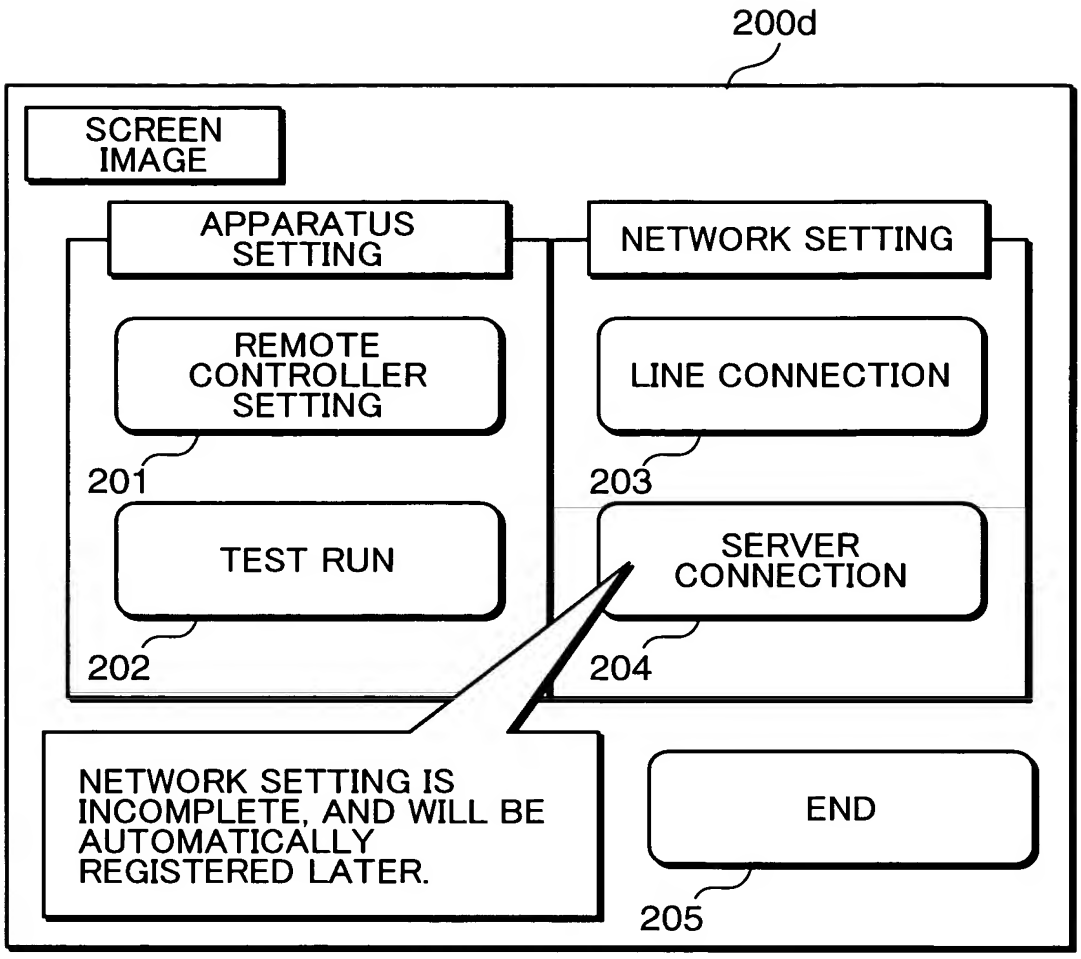

200d
SCREEN IMAGE
APPARATUS SETTING
NETWORK SETTING
REMOTE CONTROLLER SETTING
LINE CONNECTION
201
203
TEST RUN
SERVER CONNECTION
202
204
NETWORK SETTING IS INCOMPLETE, AND WILL BE AUTOMATICALLY REGISTERED LATER.
END
205

FIG.8

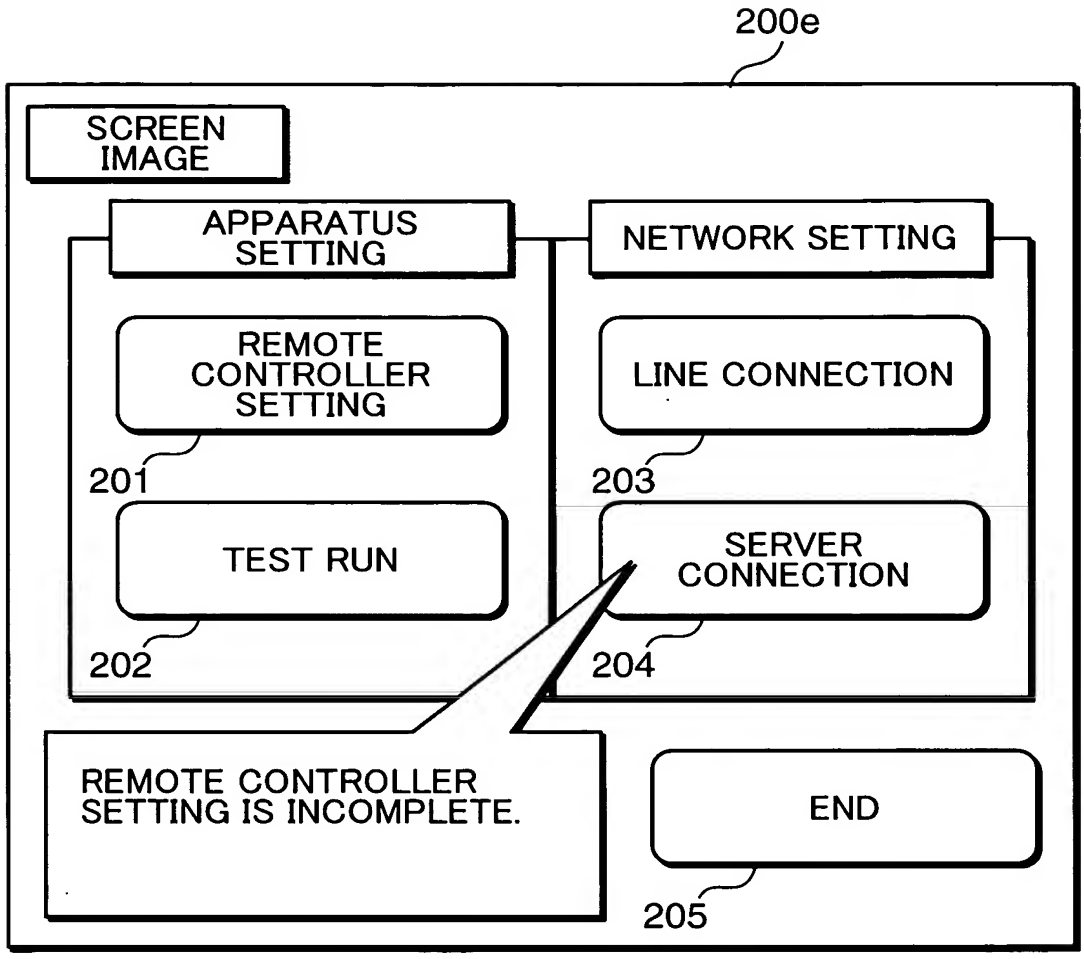

200e
SCREEN IMAGE
APPARATUS SETTING
NETWORK SETTING
REMOTE CONTROLLER SETTING
LINE CONNECTION
201
203
TEST RUN
SERVER CONNECTION
202
204
REMOTE CONTROLLER SETTING IS INCOMPLETE.
END
205

FIG.9

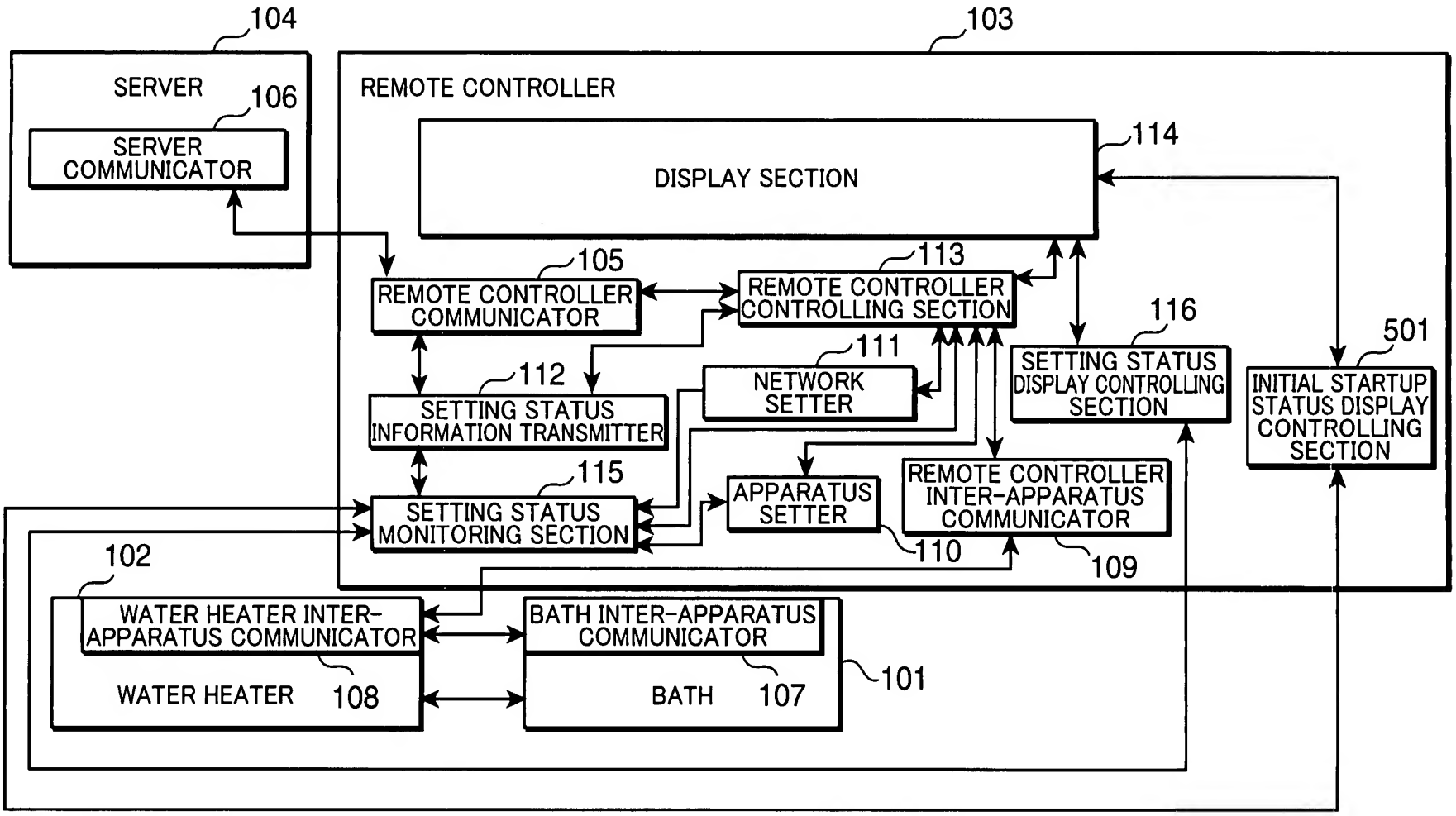

104
SERVER
106
SERVER COMMUNICATOR
103
REMOTE CONTROLLER
DISPLAY SECTION
114
105
REMOTE CONTROLLER COMMUNICATOR
113
REMOTE CONTROLLER CONTROLLING SECTION
116
501
111
NETWORK SETTER
112
SETTING STATUS INFORMATION TRANSMITTER
SETTING STATUS DISPLAY CONTROLLING SECTION
INITIAL STARTUP STATUS DISPLAY CONTROLLING SECTION
115
SETTING STATUS MONITORING SECTION
APPARATUS SETTER
110
REMOTE CONTROLLER INTER-APPARATUS COMMUNICATOR
109
102
WATER HEATER INTER-APPARATUS COMMUNICATOR
BATH INTER-APPARATUS COMMUNICATOR
WATER HEATER
108
BATH
107
101

FIG.10

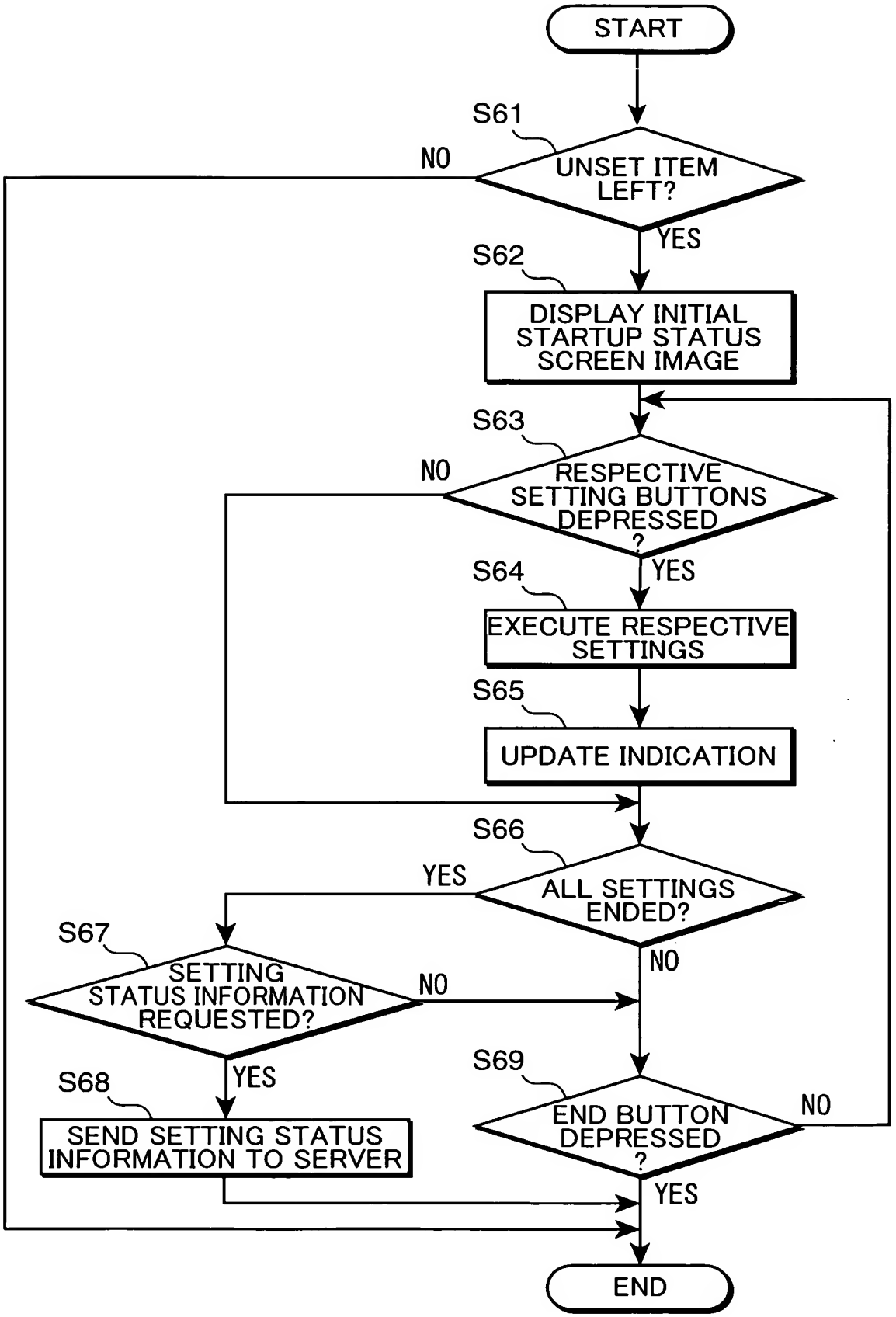

START
S61
UNSET ITEM LEFT?
NO
YES
S62
DISPLAY INITIAL STARTUP STATUS SCREEN IMAGE
S63
RESPECTIVE SETTING BUTTONS DEPRESSED ?
NO
YES
S64
EXECUTE RESPECTIVE SETTINGS
S65
UPDATE INDICATION
S66
ALL SETTINGS ENDED?
YES
NO
S67
SETTING STATUS INFORMATION REQUESTED?
NO
YES
S68
SEND SETTING STATUS INFORMATION TO SERVER
S69
END BUTTON DEPRESSED ?
NO
YES
END

FIG.11

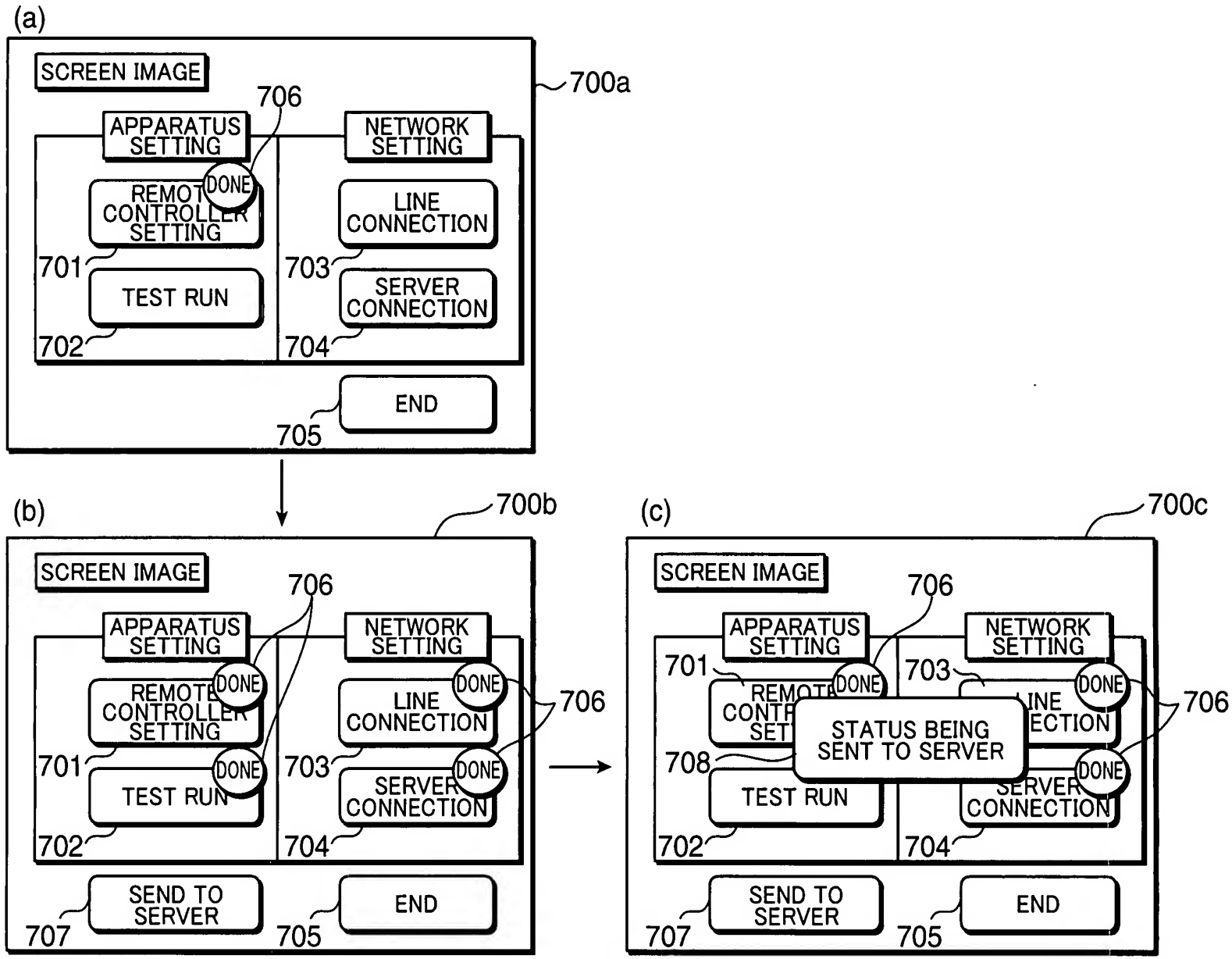

(a)
SCREEN IMAGE
700a
706
APPARATUS SETTING
NETWORK SETTING
REMOTE CONTROLLER SETTING
DONE
LINE CONNECTION
701
703
TEST RUN
SERVER CONNECTION
702
704
END
705
(b)
700b
SCREEN IMAGE
706
APPARATUS SETTING
NETWORK SETTING
REMOTE CONTROLLER SETTING
DONE
LINE CONNECTION
DONE
706
701
703
TEST RUN
DONE
SERVER CONNECTION
DONE
702
704
SEND TO SERVER
END
707
705
(c)
700c
SCREEN IMAGE
706
APPARATUS SETTING
NETWORK SETTING
701
703
DONE
DONE
706
STATUS BEING SENT TO SERVER
708
TEST RUN
DONE
SERVER CONNECTION
702
704
SEND TO SERVER
END
707
705

FIG.12

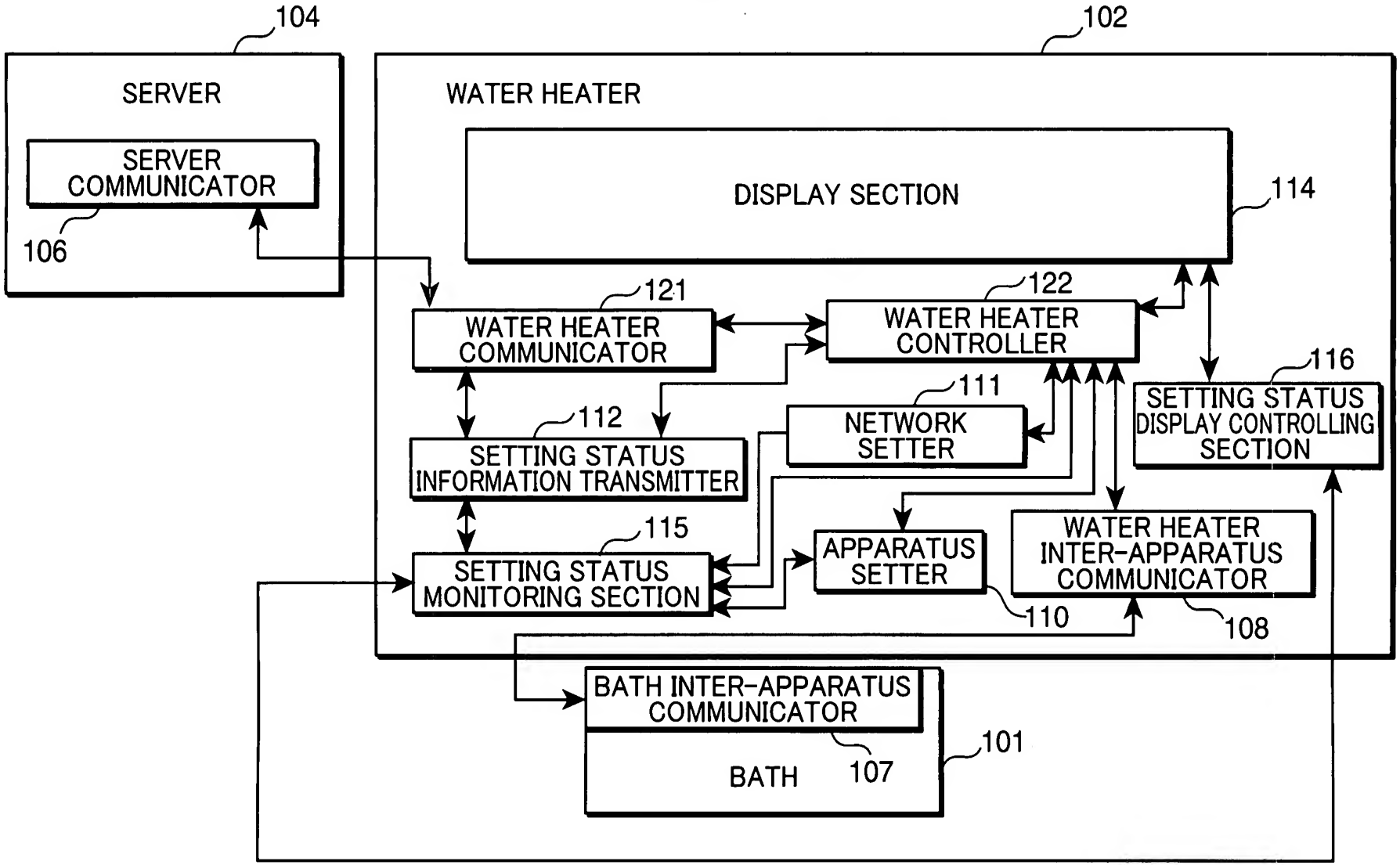

104
SERVER
SERVER COMMUNICATOR
106
102
WATER HEATER
DISPLAY SECTION
114
121
WATER HEATER COMMUNICATOR
122
WATER HEATER CONTROLLER
116
SETTING STATUS DISPLAY CONTROLLING SECTION
111
NETWORK SETTER
112
SETTING STATUS INFORMATION TRANSMITTER
115
SETTING STATUS MONITORING SECTION
APPARATUS SETTER
110
WATER HEATER INTER-APPARATUS COMMUNICATOR
108
BATH INTER-APPARATUS COMMUNICATOR
107
BATH
101

FIG.13

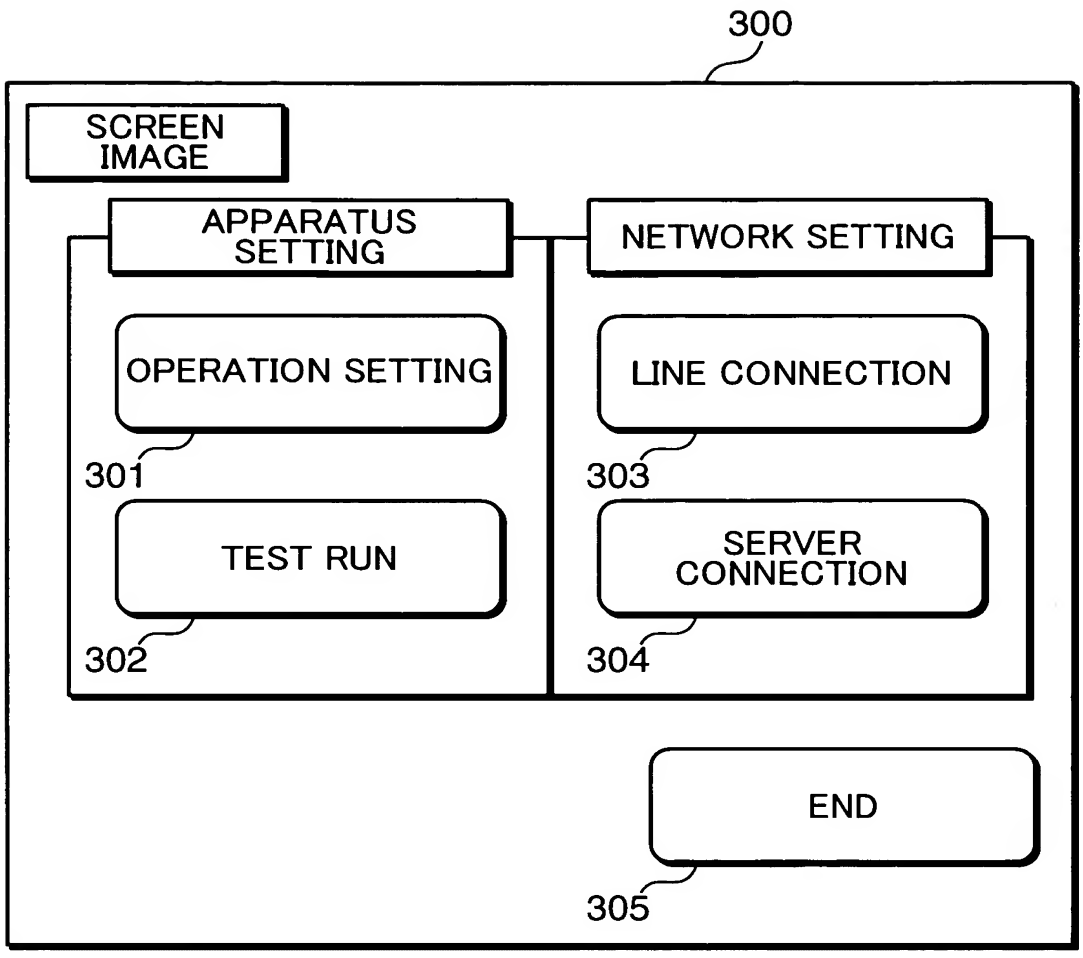

300
SCREEN IMAGE
APPARATUS SETTING
NETWORK SETTING
OPERATION SETTING
LINE CONNECTION
301
303
TEST RUN
SERVER CONNECTION
302
304
END
305

FIG.14A

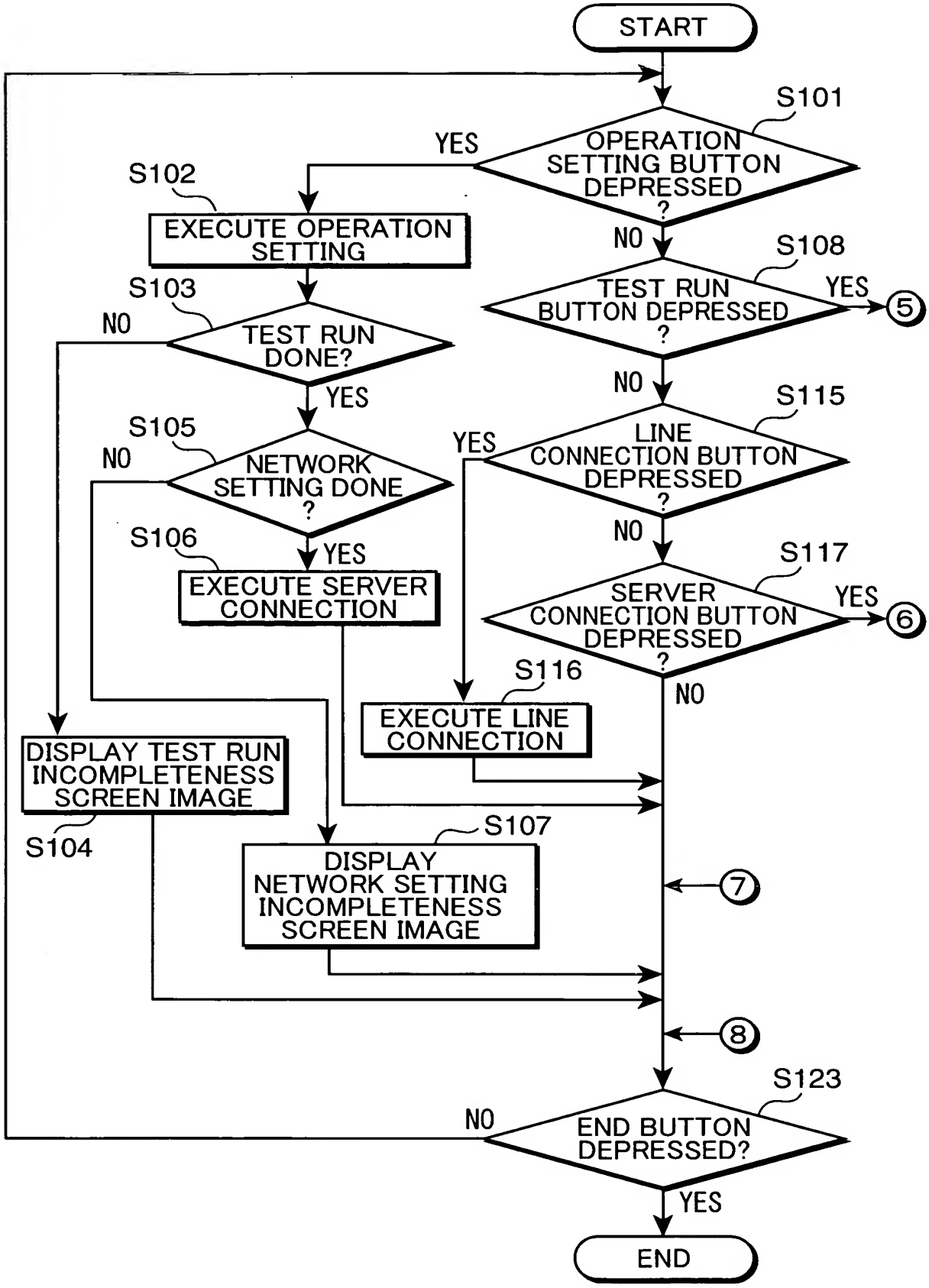

START
S101
OPERATION SETTING BUTTON DEPRESSED ?
YES
S102
EXECUTE OPERATION SETTING
NO
S108
TEST RUN BUTTON DEPRESSED ?
YES
5
S103
TEST RUN DONE?
NO
YES
NO
S115
LINE CONNECTION BUTTON DEPRESSED ?
YES
S105
NETWORK SETTING DONE ?
NO
NO
S117
SERVER CONNECTION BUTTON DEPRESSED ?
YES
6
S106
EXECUTE SERVER CONNECTION
YES
S116
EXECUTE LINE CONNECTION
NO
DISPLAY TEST RUN INCOMPLETENESS SCREEN IMAGE
S104
S107
DISPLAY NETWORK SETTING INCOMPLETENESS SCREEN IMAGE
7
8
S123
END BUTTON DEPRESSED?
NO
YES
END

FIG.14B

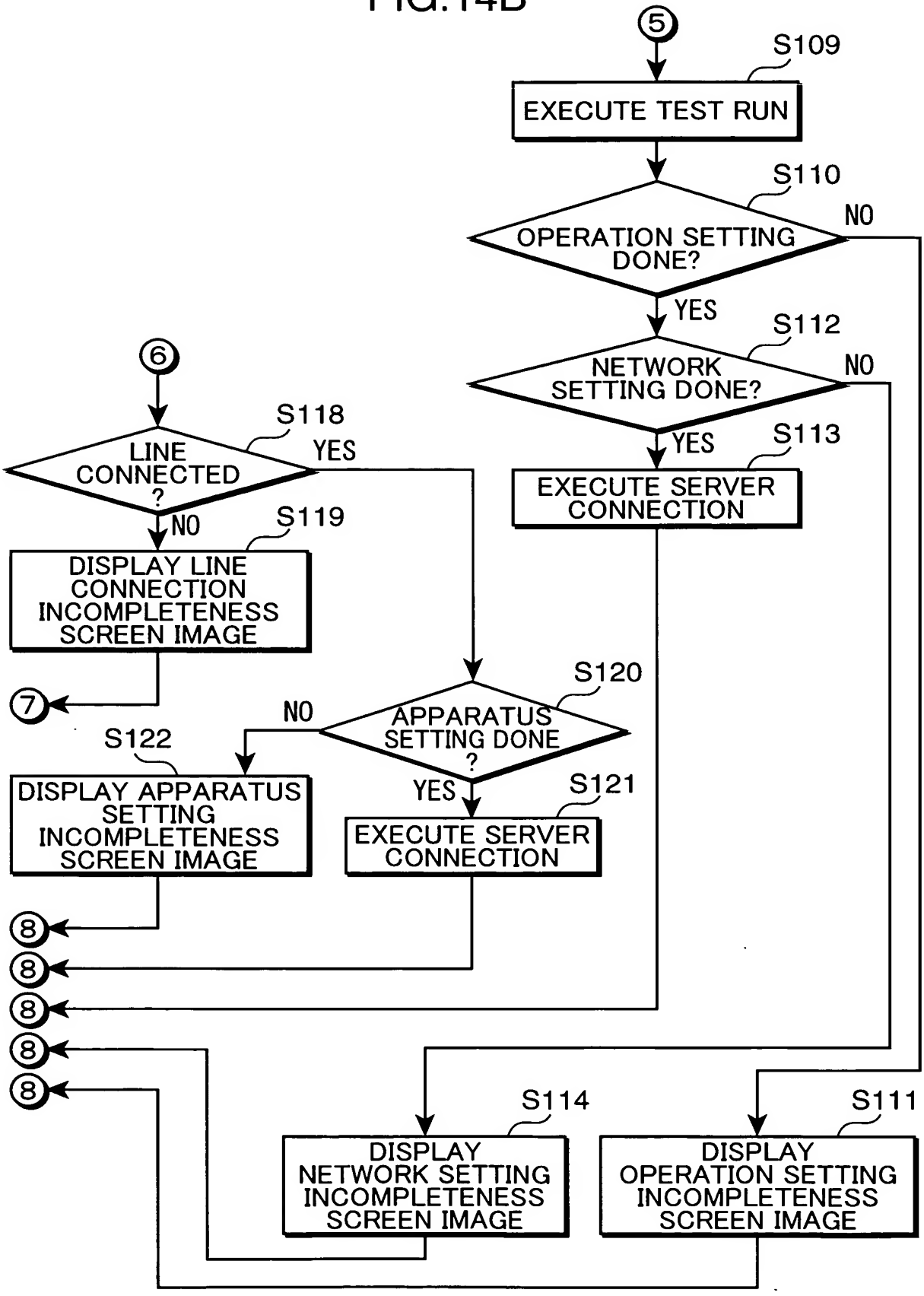
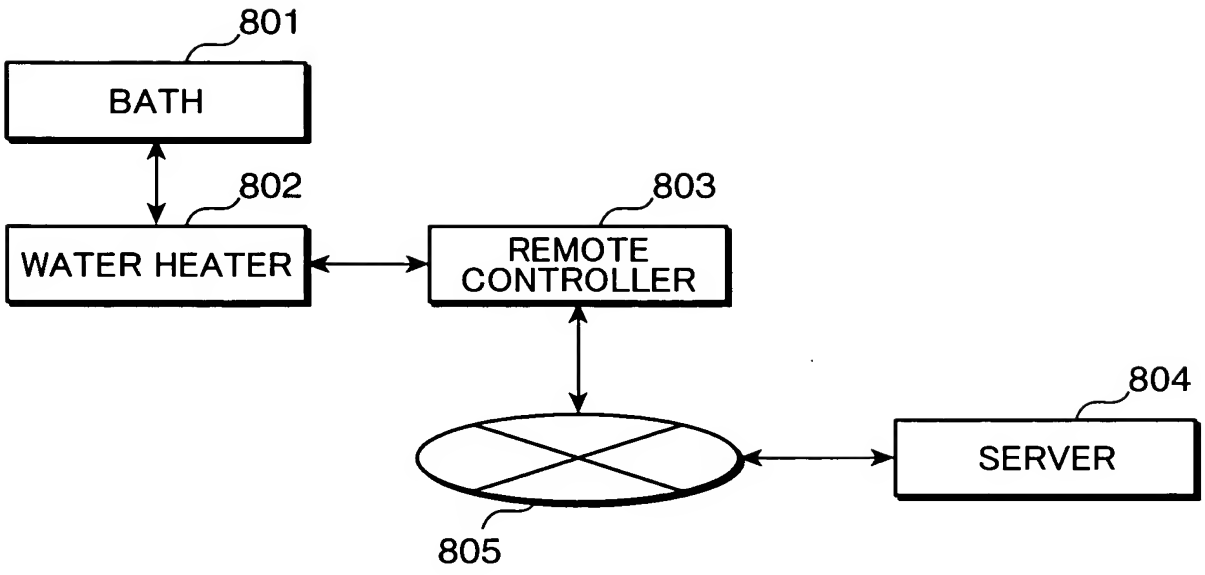

⑤
S109
EXECUTE TEST RUN
S110
OPERATION SETTING DONE?
NO
YES
S112
NETWORK SETTING DONE?
NO
YES
S113
EXECUTE SERVER CONNECTION
⑥
S118
LINE CONNECTED ?
YES
NO
S119
DISPLAY LINE CONNECTION INCOMPLETENESS SCREEN IMAGE
⑦
S120
APPARATUS SETTING DONE ?
NO
YES
S122
DISPLAY APPARATUS SETTING INCOMPLETENESS SCREEN IMAGE
S121
EXECUTE SERVER CONNECTION
⑧
⑧
⑧
⑧
⑧
S114
DISPLAY NETWORK SETTING INCOMPLETENESS SCREEN IMAGE
S111
DISPLAY OPERATION SETTING INCOMPLETENESS SCREEN IMAGE

FIG.15


801
BATH
802
WATER HEATER
803
REMOTE CONTROLLER
804
SERVER
805